SECTION I—CLAIMS

Amendment to the Claims:

This listing of the claims will replace all prior versions and listings of claims in the

application, Claims 43, 46-51, and 54-56 are amended herein, Claims 1-34, 36-37, 44-45, and

52-53 remain canceled herein. No new claims are added.

Listing of Claims:

1-34. (Canceled).

35. (Previously Presented) A method in an application server, comprising:

receiving a Web service archive including:

a Web service implementation having a plurality of Web service operations and a

plurality of Web service parameters, the Web service operations and Web service

parameters being independent of runtime implementation requirements of the

application server,

a Web service deployment descriptor specifying a mapping of the Web service operations

and Web service parameters to the runtime implementation requirements of the

application server, and

a first and second virtual interface, each to selectively expose a different subset of the

Web service operations and the Web service parameters in the Web service

implementation, wherein each of the first and second virtual interfaces are

publishable as a separate deployed Web service:

unpacking the Web service implementation, the Web service deployment descriptor, and the first

Attorney Docket No.: 6570P062 Amendment for Serial No.: 10/750.058 Claims

- 2 -

and second virtual interfaces from the Web service archive into a directory within the application server; and

deploying each of the first and second virtual interfaces as separately published Web services within the application server based on the mapping specified by the Web service deployment descriptor.

36-37. (Canceled).

38. (Previously Presented) The method of claim 35, further comprising registering each of the deployed Web services with a Web services registry on the application server.

39. (Previously Presented) The method of claim 38, wherein registering each of the deployed Web services comprises automatically registering each of the deployed Web services with a Java Naming and Directory Interface (JNDI) of the application server.

40. (Previously Presented) The method of claim 35, wherein deploying each of the first and second virtual interfaces as separately published Web services within the application server comprises deploying the plurality of Web service operations and the plurality of Web service parameters in a Web services container of the application server.

41. (Previously presented) The method of claim 40, wherein the Web services container comprises a dedicated implementation container.

42. (Previously presented) The method of claim 41, wherein the dedicated implementation container comprises an Enterprise Java Bean (EJB) container or a servlet container.

43. (Currently amended) A computer system-readable medium having instructions stored thereon that, when executed by a processor in an application server, causes the application server to perform a method comprising:

receiving a Web service archive including:

- a Web service implementation having a plurality of Web service operations and a plurality of Web service parameters, the Web service operations and Web service parameters being independent of runtime implementation requirements of the application server,
- a Web service deployment descriptor specifying a mapping of the Web service operations and Web service parameters to the runtime implementation requirements of the application server, and
- a first and second virtual interface, each to selectively expose a different subset of the

 Web service operations and the Web service parameters in the Web service

 implementation, wherein each of the first and second virtual interfaces are

 publishable as a separate deployed Web service;
- unpacking the Web service implementation the Web service deployment descriptor, and the first and second virtual interfaces from the Web service archive into a directory within the application server; and
- deploying each of the first and second virtual interfaces as separately published Web services within the application server based on the mapping specified by the Web service deployment descriptor.
- 44-45. (Canceled).
- 46. (Currently amended) The emputer system-readable medium of claim 43, wherein the method further comprises registering each of the deployed Web services with a Web services registry on the application server.
- 47. (Currently amended) The emputer system-readable medium of claim 46, wherein registering each of the deployed Web services comprises automatically registering each

Attorney Docket No.: 6570P062 Claims
Amendment for Serial No.; 10/750,058 - 4 - Examiner: Higa, Brendan Y.

of the deployed Web services with a Java Naming and Directory Interface (JNDI) of the application server.

48. (Currently amended) The eemputer system-readable medium of claim 43, wherein deploying each of the first and second virtual interfaces as separately published Web services within the application server comprises deploying the plurality of Web service operations and the plurality of Web service parameters in a Web services container of the application server

- 49. (Currently amended) The computer system-readable medium of claim 48, wherein the Web services container comprises a dedicated implementation container.
- 50. (Currently amended) The computer system-readable medium of claim 49, wherein the dedicated implementation container comprises an Enterprise Java Bean (EJB) container or a servlet container.
- (Currently amended) An application server, comprising: to receive means for receiving a
 Web service archive including comprising:
 - a Web service implementation having a plurality of Web service operations and a plurality of Web service parameters, the Web service operations and Web service parameters being independent of runtime implementation requirements of the application server,
 - a Web service deployment descriptor having means for specifying to specify a mapping of the Web service operations and Web service parameters to the runtime implementation requirements of the application server, and
 - a first and second virtual interface, each having means to selectively expose a different subset of the Web service operations and the Web service parameters in the Web

Attorney Docket No.: 6570P062 Claims
Amendment for Serial No.: 10/750.058 - 5 - Examiner: Higa. Brendan Y.

service implementation, wherein each of the first and second virtual interfaces are publishable as a separate deployed Web service;

 $\underline{\text{wherein the application server to unpack}} \ \underline{\text{means for unpacking}} \ \text{the Web service implementation},$

the Web service deployment descriptor, and the first and second virtual interfaces from

the Web service archive into a directory within the application server; and

wherein the application server to further deploy means for deploying each of the first and second

virtual interfaces as separately published Web services within the application server

based on the mapping specified by the Web service deployment descriptor.

52-53. (Canceled).

54. (Currently amended) The application server of claim 51, wherein the application server to

further comprising means for registering register each of the deployed Web services with

a Web services registry on the application server.

55. (Currently amended) The application server of claim 54, wherein registering each of the

deployed Web services comprises the application server to means for automatically

registering register each of the deployed Web services with a Java Naming and Directory

Interface (JNDI) of the application server.

56. (Currently amended) The application server of claim 51, wherein deploying each of the first

and second virtual interfaces as separately published Web services within the application

server comprises the application server to deploy means for deploying the plurality of

Web service operations and the plurality of Web service parameters in a Web services

container of the application server.

57. (Previously presented) The application server of claim 56, wherein the Web services

container comprises a dedicated implementation container.

58. (Previously presented) The application server of claim 57, wherein the dedicated implementation container comprises an Enterprise Java Bean (EJB) container or a servlet container.